

Accelerate Happiness & Health

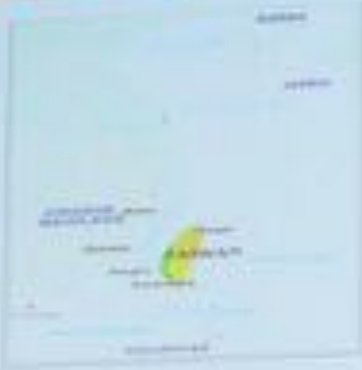
From Innovation to Startup @medical technologies

Hsu-Wei Fang, Ph.D.





Taiwan



Area: 36,000 sq. km

Population: 23.04 million

Per Capita Income: US\$16,442

Foreign Trade (goods) :
World's 18th largest trading nation

Number of Enterprises: 1.26 million

Number of SMEs: 1.23 million

Ratio of SMEs to All Enterprises: 97.7%

Source: Taiwan Statistics, 2008

**EBN Congress 2011
Toulon, France**



**SME in Taiwan
by Dr. Hsu-Wei Fang**





Founder, Dr. Hsu-Wei Fang



Ph.D., Univ. of Maryland, USA

M.S., Univ. of Maryland, USA

B.S., NTU, Taiwan

Distinguished Professor, National Taipei University of Technology

Researcher, National Health Research Institutes, Taiwan.

Vice President, Taiwan Business Incubation Association (2012-14)

Former NIST research scientist, USA (1996 - 2003)



Medical Device Market

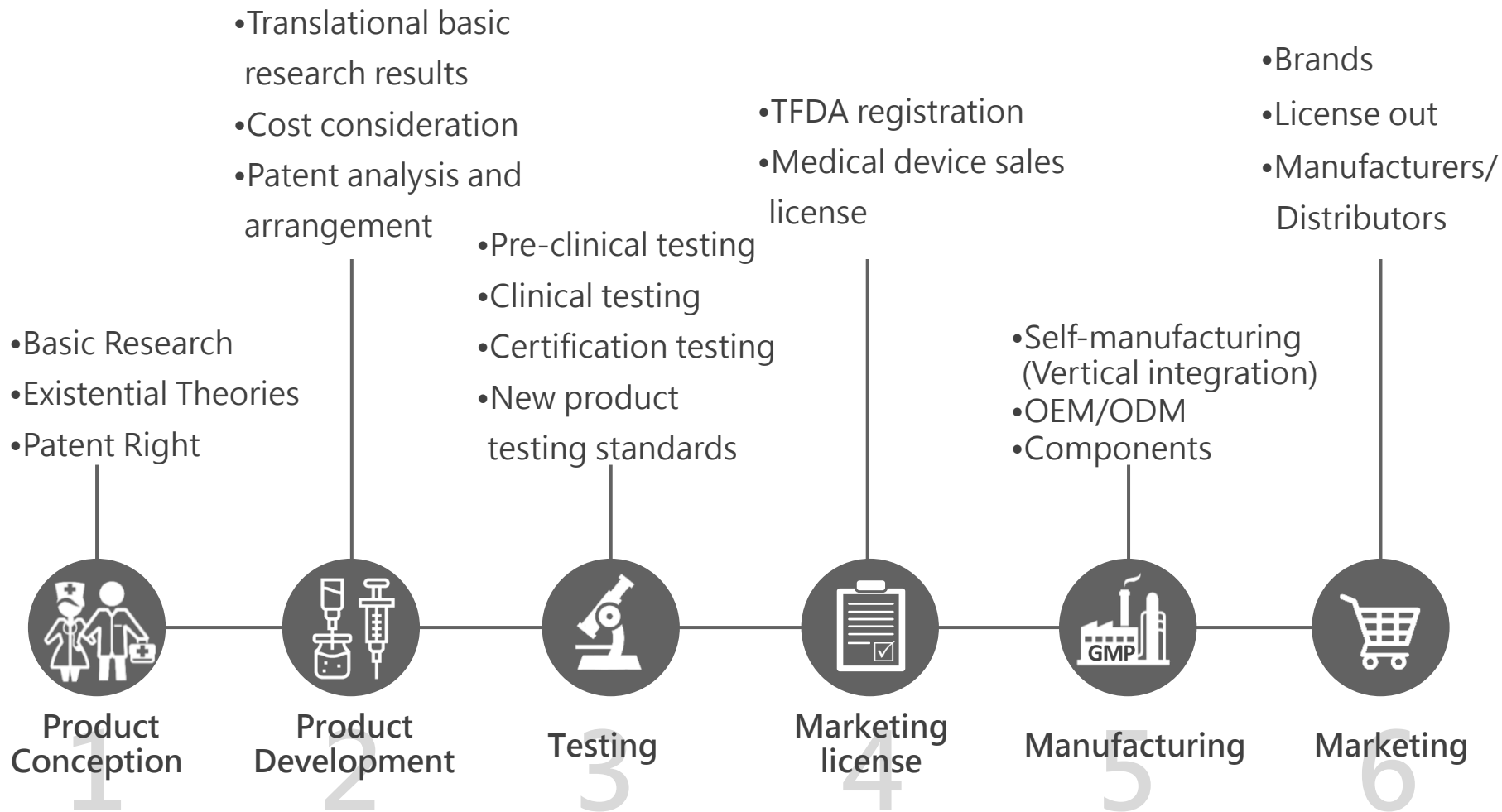
Pain Points

V.S.

Biotechy

Solutions / Innovations





Medical Device Industry Gap

International / Well-capitalized
Operating model

**One-stop
manufacturing**



Large input cost, Long time
Low successful chances

Vs.

Small and medium enterprise
(SME) opportunities

**New
business model**



Upstream/downstream teamwork
Reasonable risk spreading

Development History

Focus : Innovative Class II, Brand-new Class III, Breakthrough whole new medical devices
Arrangement : Global market

- 2009 Jan. MT3 center establishment in Taipei Tech
- 2009 - 2014 MT³ completed multiple technology-transfer projects, and established pilot GMP factory
- 2014 Oct. Bioteqy has passed the review for marching into Hsinchu Biomedical Science Park Incubation Center
- 2015 April **Bioteqy Corp. has officially established (April 2nd)**
May-Aug. Introducing technologies: **CartiJET, ProCellar, Bone graft materials, Bone cement**
June Applying international patent for **CartiJET**
Sept. Starting a technology cooperation project of **Pocket Protector** with an US medical doctor
Nov. Applying US, TW, and PCT patents for Pocket Protector Accessories Design, and US patent has obtained
Dec. Signing contact with a TW medical group and starting product design for aesthetic medicine implants
- 2016 June Applying US FDA IDE for **Pocket Protector**, and meeting with FDA reviewers
July Completion of automatic machine development for **barbed suture**, and entering GMP production
Sept. Starting a cooperation project with a dentist group for developing procedures of dental implant cleaning
- 2017 Jan. Starting a technology transfer and commercialization product of **growth factor-containing bone graft materials** with a pharmaceutical company

Development History

- 2017
 - Feb. Obtaining US invention patent for Pocket Protector
 - March Signing an authorization contract for developing “Second generation automatic machine for biological absorbable lift suture ”
 - April Successfully assisting establishments of two new companies
 - May Obtaining TW trademark license for “biological absorbable lift suture”
 - July Biotech joined an exhibition with other medical companies in Vietnam, and promoted exchanges with medical device manufacturers in Southeast countries
 - Sept. Obtaining TW trademark license for CartiJET, and signing an authorization contract for developing “ultrasound therapy instrument”
 - Oct. Signing a technology transfer with Taipei Tech: Contact lens care solution
 - Nov. Biotech joined a Taiwan Expo with other medical companies in Malaysia. Promoting cooperation opportunities between TW and Malaysia, and successfully building reputation for Taiwan medicine industry
 - Dec. Biotech increased Capital to 10 million Taiwanese New Dollars
- 2018
 - Jan. Applying class II medical device registration of “injectable bone graft materials” from TFDA
 - Feb. Obtaining Class I medical device license of 「insertion tube」, and pharmacist selling license

Management Team



President
Tiffany Huang

- Keio University, JP. Master of Law
- **Takeda Pharmaceutical company** Legal Manager
- Deloitte Taiwan, Japan Business Group Specialist



R&D Manager
Michelle Li
Ph. D.

- Taipei Tech University. Ph.D. in biomedical and biochemistry
- National Health Research Institutes Researcher
- 10-year experience in medical device development



**Founder /
Technical Chief
Consultant**
Hsu-Wei Fang Prof.

- Maryland University, USA. Ph.D. in Chemical Engineering
- **Taipei Tech University. Distinguished Professor**
- National Health Research Institutes Joint Investigator
- Bio Taiwan Committee member
- Ta-You Wu Memorial Award - The highest honor of young scholars in Taiwan



**Sales Department
Manager**
Po-Liang Lin
Ph. D.

- Taipei Tech University. Ph.D. in biomedical and biochemistry
- Taiwan Textile Research Institute Researcher



**Medical Device
Sale**
Lily Chao Director

- GeneMedical President
- Medical device market analysis consultant
- **Industry Technology Research Institute IEK Deputy Director**
- Ministry of Economic Affairs Program Office Director



**International
Marketing
Manager**
Johnny Fang

- Oklahoma City University, USA. Master in Business Management
- **DuPont Taiwan, Asia-Pacific special chemicals Associate.**
- 20+ year experience in sale and market management.

Biotech works with you

The core technology of Biotech Corp.

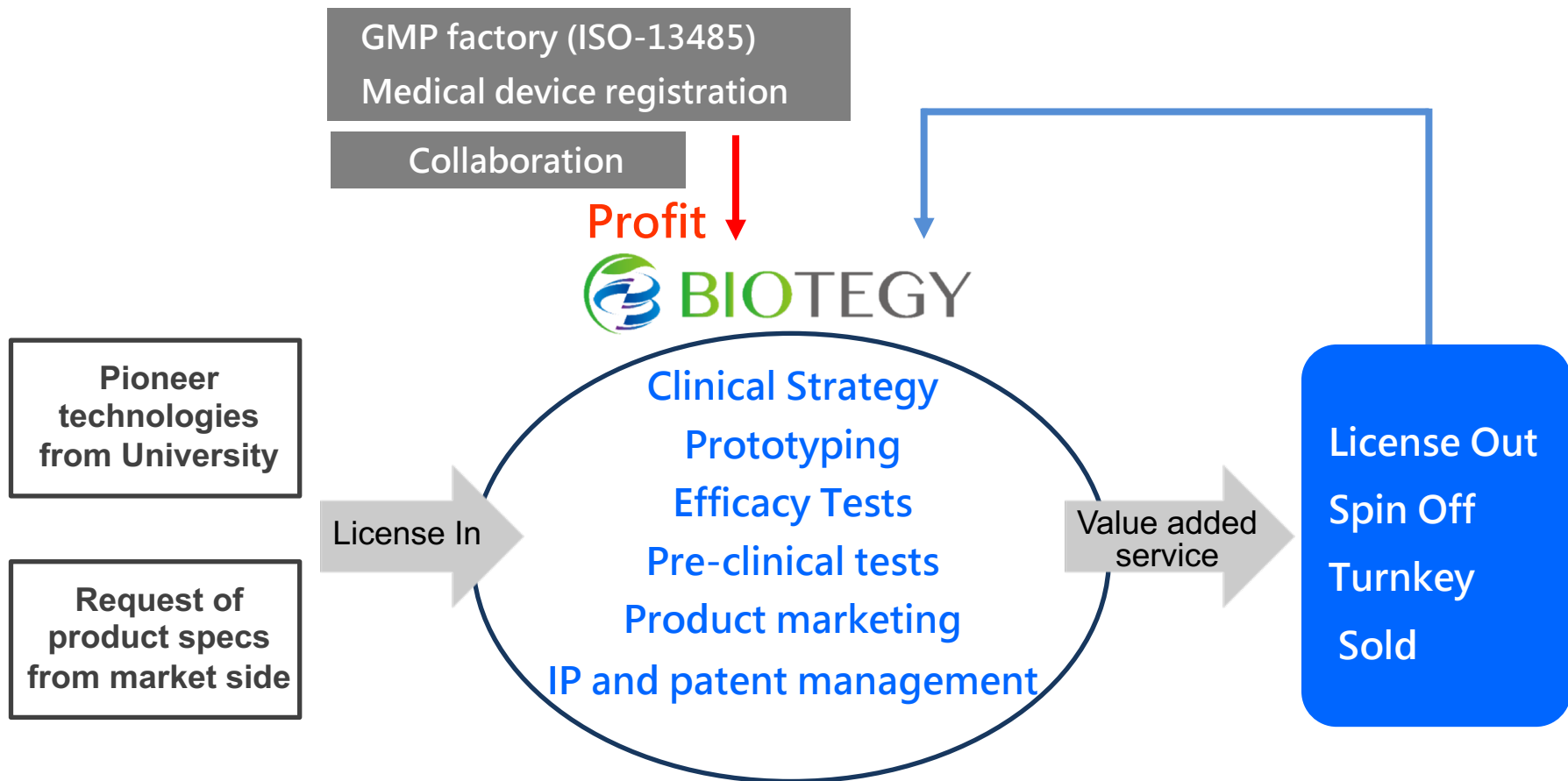


Begin with the end in mind

**Medical Device
Design House**
that works with SME

Biotech Corp. is an innovative platform that focuses on the medical products from **design and development to sample production**. Biotech has the research resources and collaboration partners with **industry, government, and academia**. Biotech can develop medical devices with **marketing potentials** by combining the thoughts and clinical needs of medical doctors, and can undertake patent technologies and research results from any countries. Biotech can then create the highest values of products according to their characteristics and marketing values from R&D, manufacturing, and sale by applying varied operation models and strategies.

Business model : Co-development +Technology transfer





BIOTEGY, a Biomedical Strategist :

effectively meets unmet clinical & market needs

Main development principles

- biomedical materials,
- cell therapy,
- minimally invasive & noninvasive surgery



Established
in
2015



Certificate
3

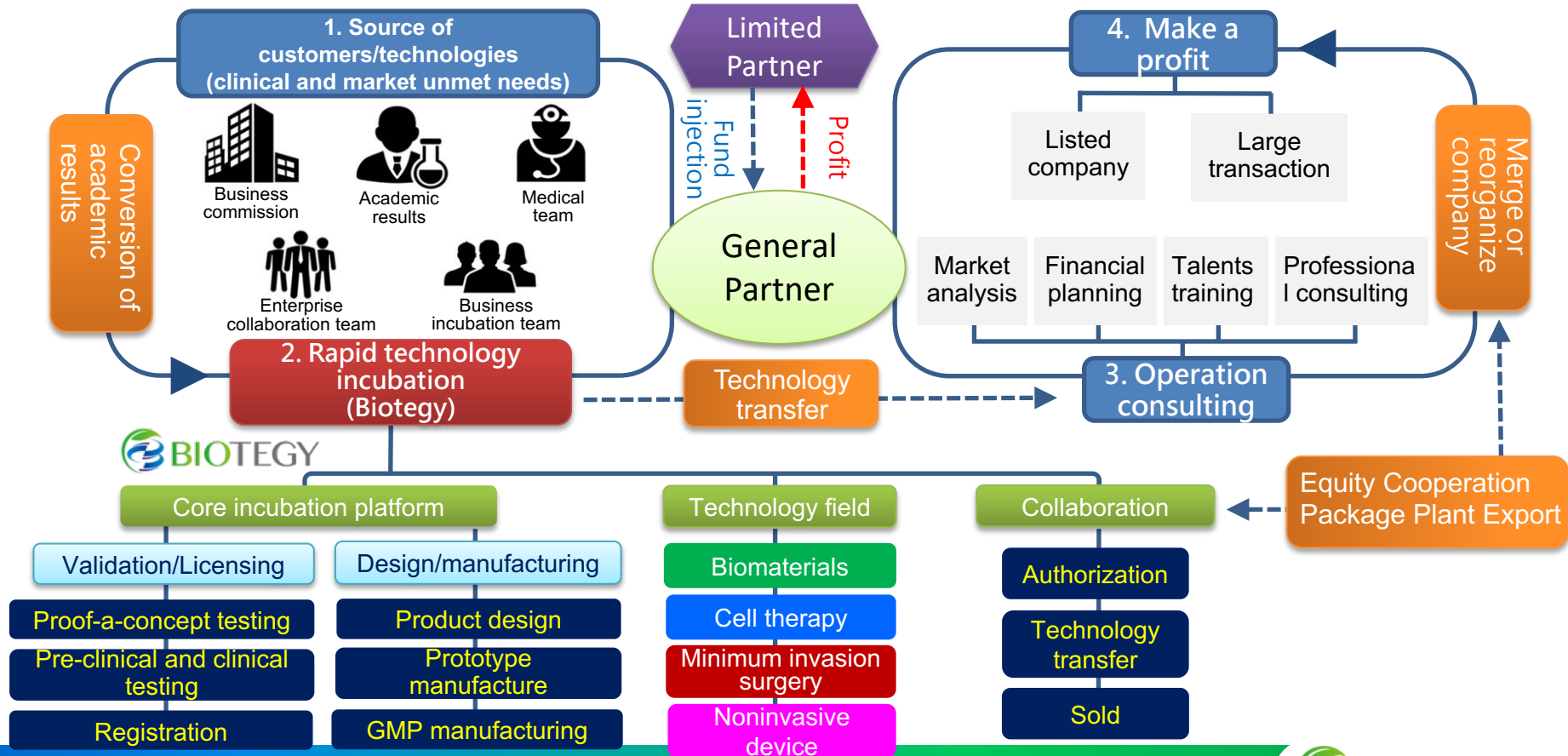


Trademarks
11

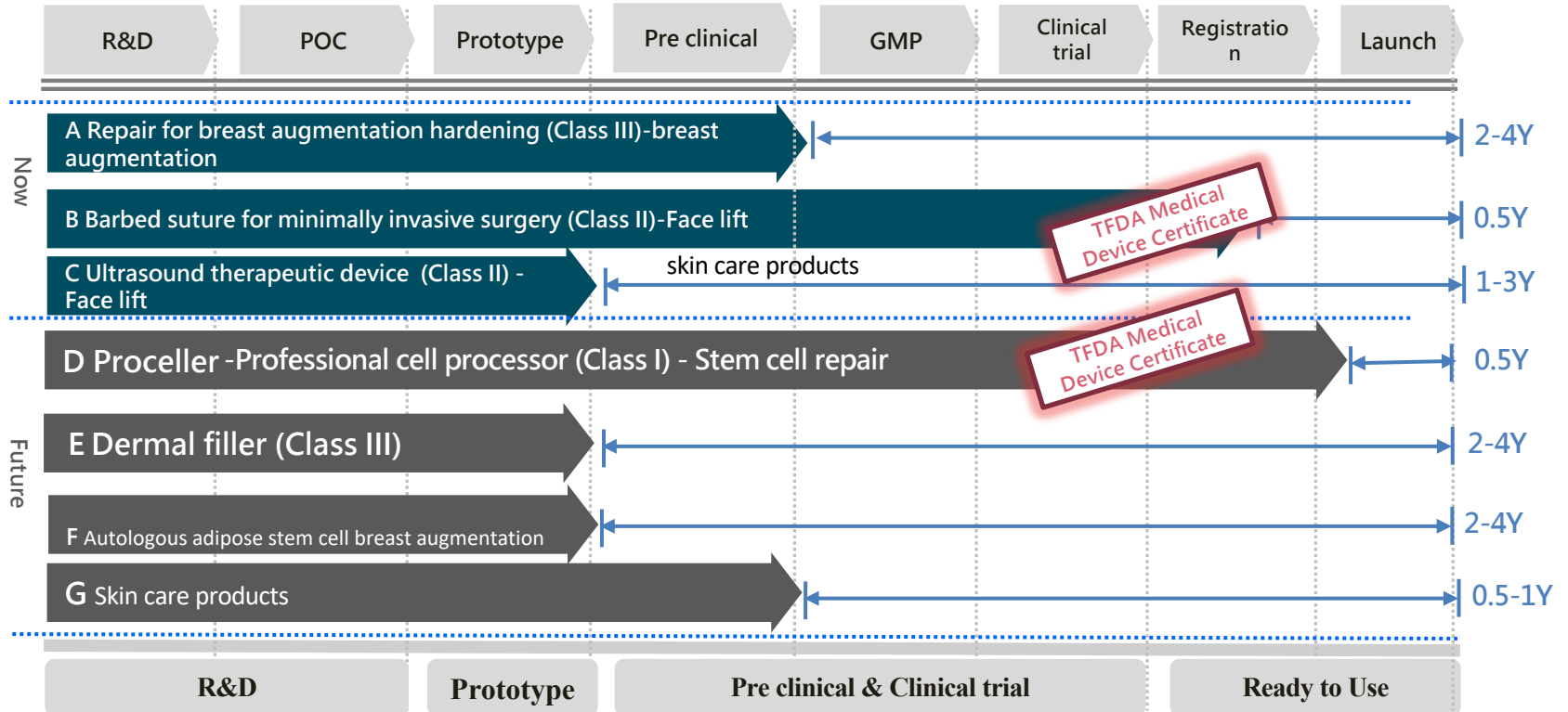


Patent
9

Mutualism between Biotech and Venture capital fund achieves win-win result



Multidisciplinary medical device development



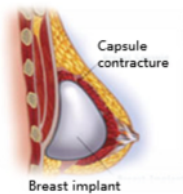
A. Repair for breast augmentation hardening

PENDING

-Pocket Protector-

World's first

Class III innovative medical device - the permanent implant for preventing and treating **capsule contracture** caused by breast augmentation



Break through the treatment dilemma

Overcome the effect of massage or short-term treatment of drugs, patients with repeated replacement of breast surgery more than 3 times

Better than the current treatments

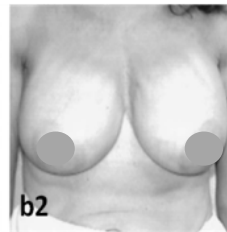
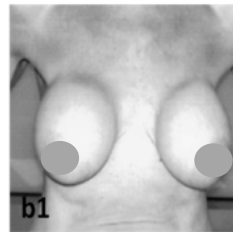
a **one-stage surgery** that can prevent and treat capsule contracture in a **long term**



Dr. Mark Berman
American Academy of
Cosmetic Surgery

President – Jan. 30, 2010 – 2011
Beverly Hills Plastic Surgeon
Co-Founder of Cell Surgical Network
and California Stem Cell Treatment
Center

38 patients with breast augmentation have never had capsule contracture, after implanting breast implant for 8 years.

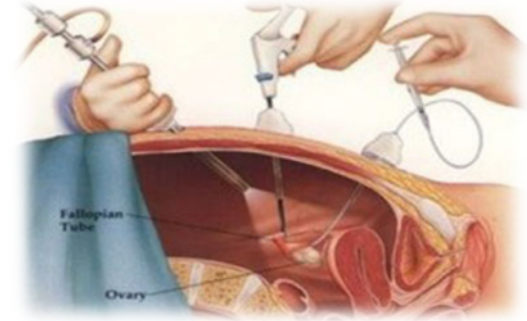


B. Barbed suture for minimally invasive surgery



Minimally invasive knotless barbed suture

- Bidirectional barbs for anchoring tissue
- Closing the wound automatically
- Knotless
- Tensile strength is evenly distributed on the wound
- Better healing effect

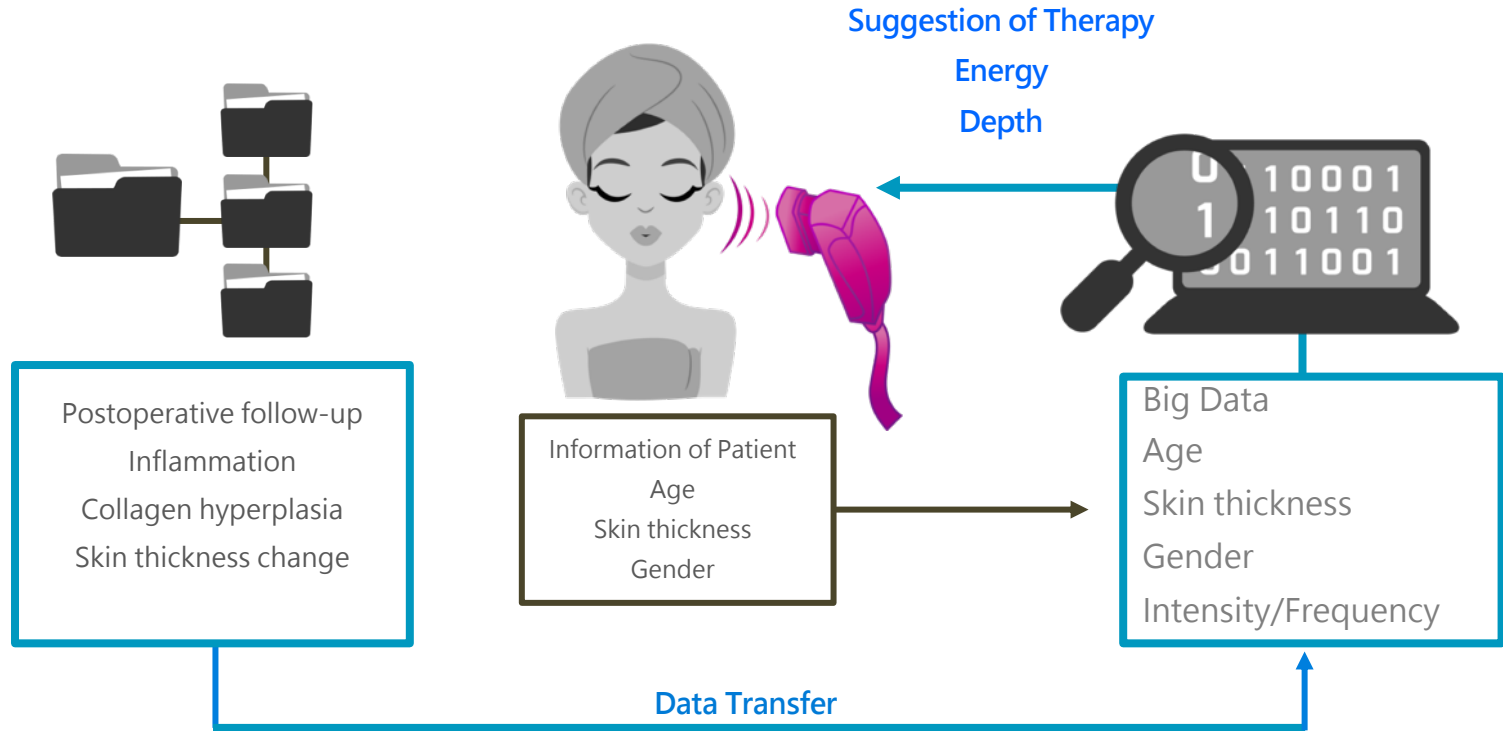


Lift for micro-plastic surgery

- Absorbable suture by FDA approval
- **Completely** absorbable in vivo for 180-240 days
- Stimulating collagen proliferation for 2 years
- Skin lifting effect



C. Ultrasound therapeutic device



Investment highlights

Global vision



World's first innovative technology – Pocket Protector for treating and preventing capsule contracture.



Multiple production lines result in **large potential market** and potential development.



Arranging sale distribution for **minimally invasive barbed sutures** to take the lead in Taiwan market.



Applying **multiple patents, FDA registration** and **TFDA registration** for every product.



Bone cement manufacturing technology is **first in Taiwan and China**, and having competitive advantage by controlling the unique manufacturing process.



R&D team include **interdisciplinary talents** with **innovation and organization abilities**, and help to accelerate commercialization duration.

Exhibition activities

2016 TRANS



2017 TRANS



2017 Future Tech



Exhibition activities

2017 Meet Taipei



2017 Taiwan Expo in Vietnam

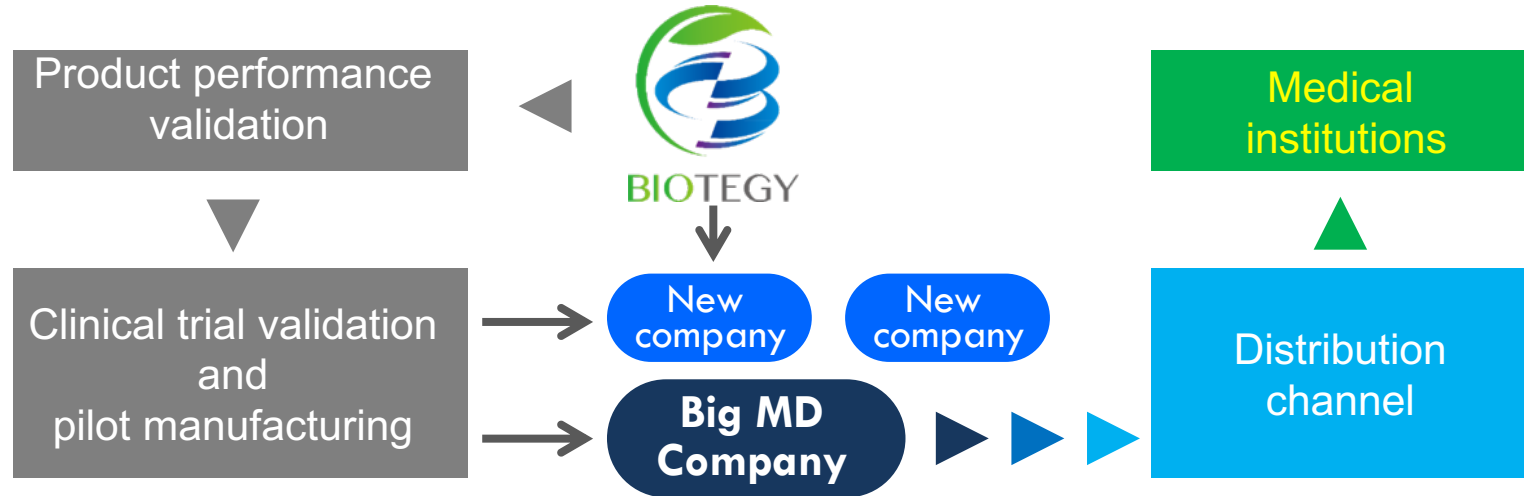


Global strategy of Bioteq

Bioteq has broken even after being established for 3 years, and has successfully validated the new business model.

Bioteq has **completed multiple know-how technologies and IP rights**, and has obtained the first medical device license in 2018.

Short-time : **Profit** → Mid-term : **Investment opportunity for start-up companies** → Long-term : **Rapid growth after obtaining product licenses**





幸福健康產業加速中心

Accelerator for **H**appiness & **H**ealth **I**ndustry

策略投資整合。加速種子孵化

ACCELERATE THE HEALTH INDUSTRY



Happiness
& Health



歡迎加入AhHi

臺灣擁有許多優秀的醫療資源與發展潛力，但該如何在國際間嶄露頭角？

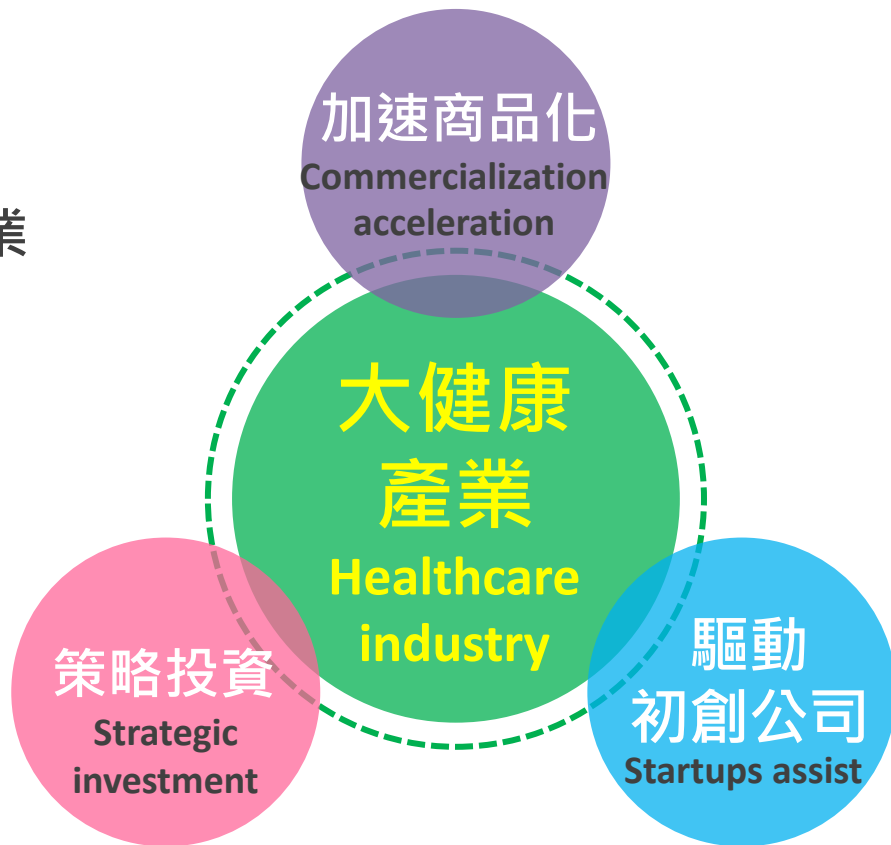
Taiwan has lots of excellent medical resources and huge potential in healthcare field. How can we stand out from the global society?

幸福健康產業加速中心目標為加速國內產業商品化，提升其競爭力並成功上市櫃。透過豐富人脈網絡及金控人壽，輔助更多擁有前瞻性「創新力」與「執行力」的人才，帶領臺灣社會邁向「**整合戰略**」的幸福健康未來！

AhHi aims at accelerating domestic industry branding and upgrading competitiveness in order to successfully make the companies listed. Through networking and financial holding company, AhHi can assist more people with creative ideas and executing ability to lead Taiwan toward an **integrating strategy** for happiness and health future!

中心宗旨與目標 Aim and goal

- 促進大健康產業發展
Facilitate healthcare industry development
- 結合學術機構、金融科技、醫療產業
Integrate academic institutions, Financial technology industry and medical industry
- 聚焦產業前瞻創新技術
Focus industrial leading and innovative technology
- 策略投資，驅動初創公司成長
Strategically invest and assist Startups to grow
- 評估臨床應用與市場佈局後投資
Evaluate clinical application and marketing arrangement before investing



中心核心成員&顧問 Center core member/consultant

法律金融專家
Law/Finance Expert



陳春山 Ph. D
Chun-San Chen Ph. D

- 加拿大渥太華大學法學博士
- 台北科技大學 智財所教授
- 全球品牌管理協會理事長
- 證券上市上櫃審議委員
- 前公共電視與華視董事長
- University of Ottawa, Canada, JD
- Taipei Tech University IP institution Professor
- Global Brands Management Association Chairman
- Advisory committee member of publicly traded securities
- Former PTS and CTS Chairman

醫材開發專家
Biomaterial Expert



方旭偉 Ph. D
Hsu-Wei Fang Ph. D

- 美國馬里蘭大學化工博士
- 台北科技大學 特聘教授
- 國家衛生研究院合聘研究員
- 行政院生技產業諮議 (BTC)委員
- 台灣年輕學者最高榮譽-吳大猷獎
- University of Maryland, US. Ph.D. in Chemical Engineering
- Taipei Tech University. Distinguished Professor
- National Health Research Institutes Joint Investigator
- Bio Taiwan Committee member
- Ta-You Wu Memorial Award - The highest

學術單位
Academic institutions



金控人壽
Financial holdings/
Insurance company



醫學中心
Medical Center



專業驗證
Certification company



中心服務 Services



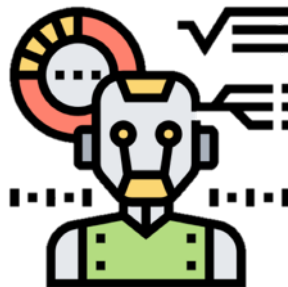
三大標的產業 Three main target industries

著重聚焦於擁有龐大市場潛力的新興產業，包括醫材、智能大健康、生活設計等與**創造未來幸福健康生活**緊密相關的產業、技術與服務。

We would like to focus on emerging industry, which has huge market potential, such as medical device field, smart health and life design. Create a future life with happiness and health related to industry, technology and service.



醫療器材
Medical device



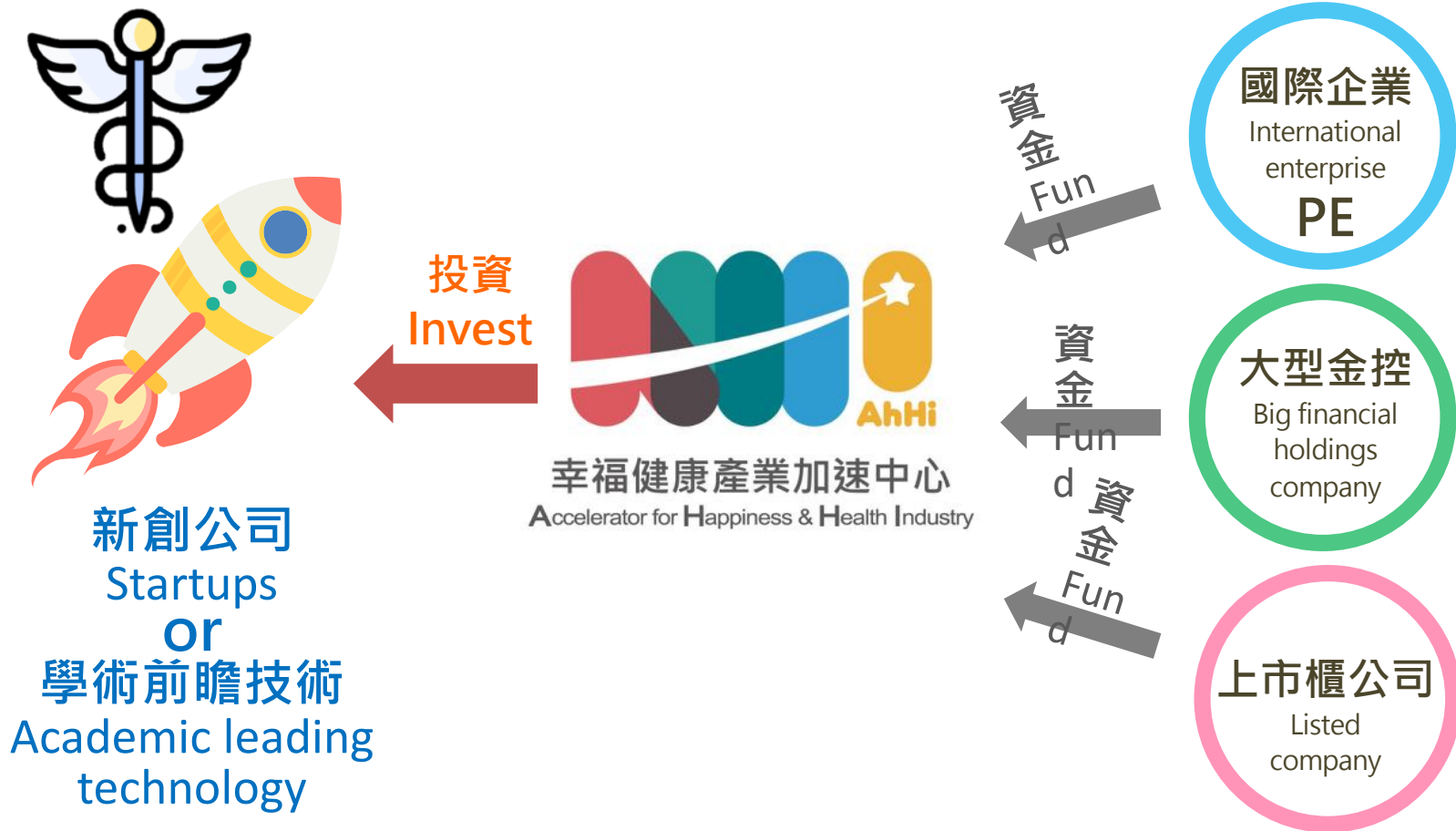
智能大健康
Smart health



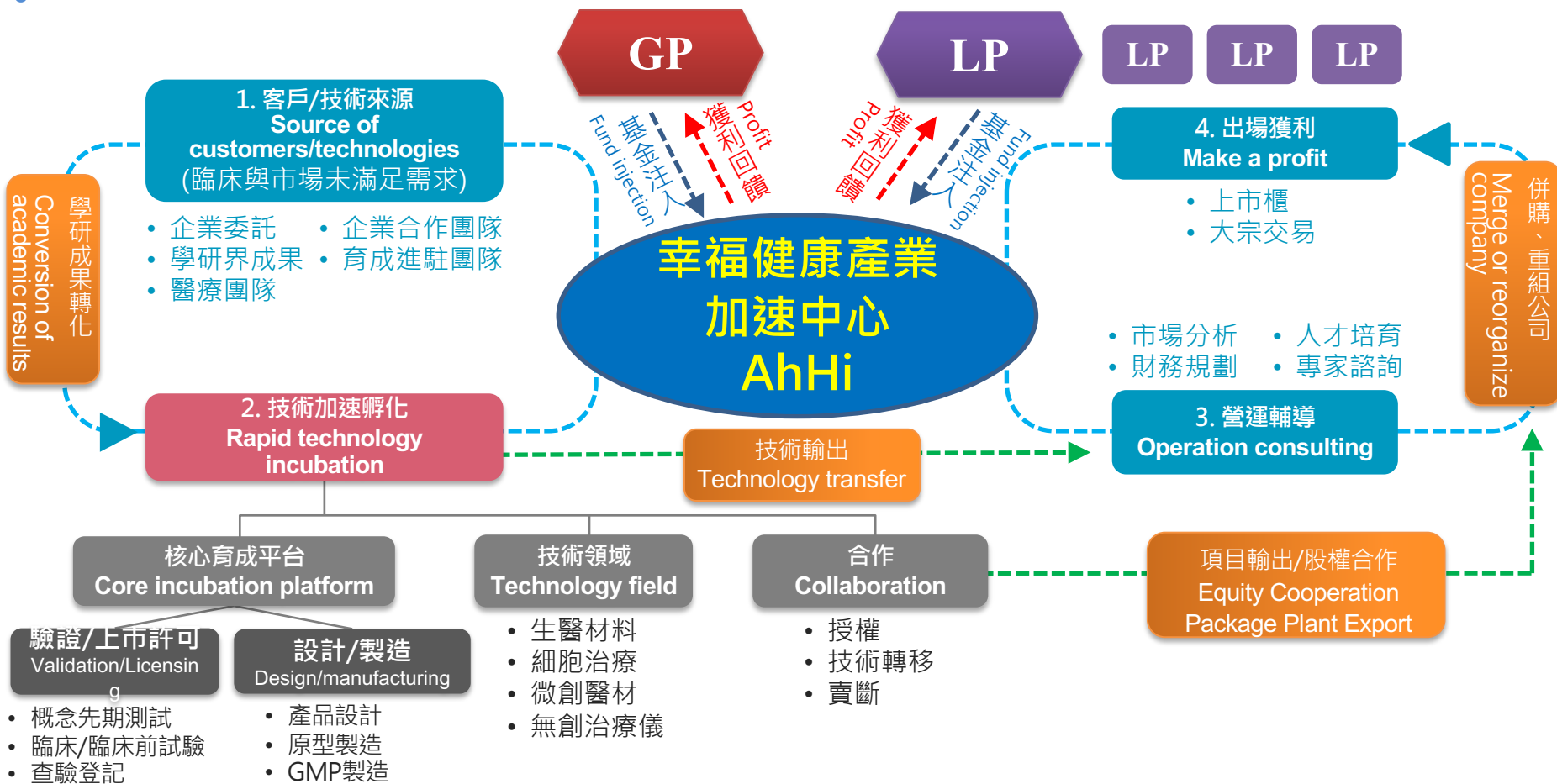
生活設計
Life design

(產品、機構、環境)
(product, mechanism,
environment)

加速器策略贊助夥伴 AhHi strategic partners



中心營運模式 Operating model



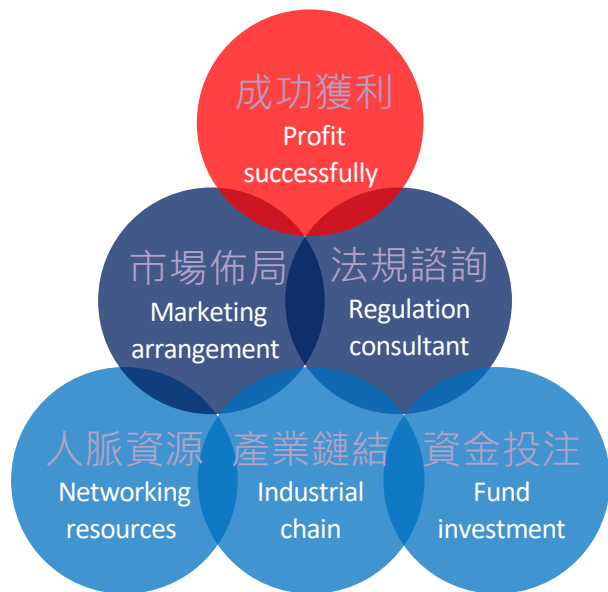
掌握**健康**趨勢。投資**幸福**未來

Master the trends. Invest happiness future.

資深大企業前輩帶領初創新

創團隊

Our center has variety of resources. **Led by senior professions**, startups get abundant energy and have advantages to enter the market!



THANK YOU!

TAIWAN

YOUR PARTNER IN ASIA

INDUSTRY CLUSTERS & BIOMEDICAL CORRIDOR

Taiwan is famous for its industry clusters. The WEF ranked Taiwan #2 in the world in cluster development in 2016.

Many specialized biotech clusters have been established across the island and can be easily accessed by Taiwan's ultra modern High Speed Rail (HSR) system. In less than two hours, the HSR effectively connects the Nangang biomedical cluster in the north to Kaohsiung in the south, and makes the island of Taiwan itself one large, unified biomedical corridor.



Nangang Biomedical Cluster



Hsinchu Science Park



Central Taiwan Science Park



Photo by Wen and Yoo, Country Tourism Bureau, ROC

